

Interactive Multimedia for Children's Adult-Assisted Instruction: A Qualitative Study

By

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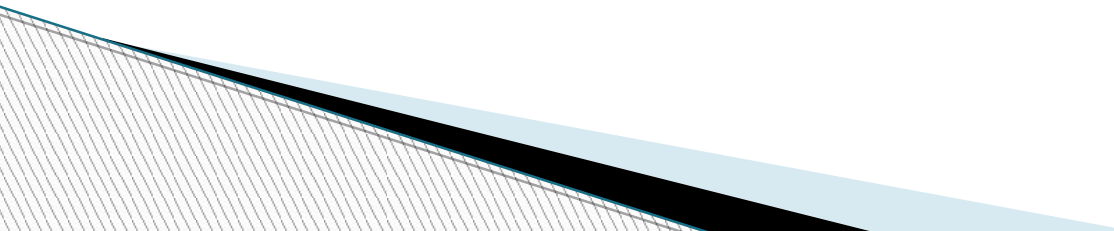
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Introduction

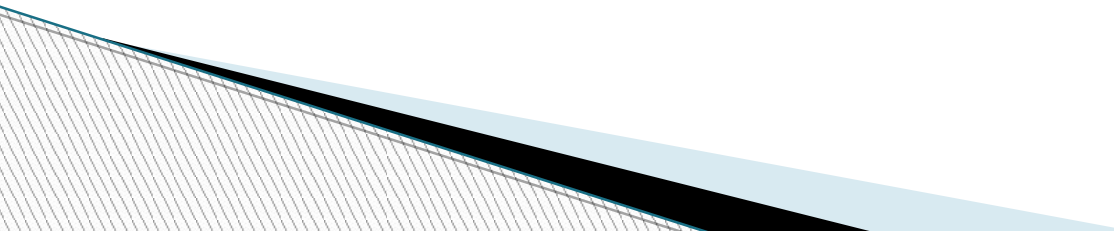
- ▶ Challenges for Elementary School Learners
 - Improve participation in activities.
 - Means: using Interactive Multimedia Technology (IMT)
- ▶ Types of IMT
 - Video Games
 - Virtual reality
 - Artificial Intelligence
 - Interactive Websites
 - Chatbots

Introduction (con't)

- ▶ Rationale (cont'd)
 - Many elementary school aged students already use various forms of IMT at home.
 - Teachers feel that the use of IMT which is enforced at home will be better for students
 - Purpose: To discover if the use of IMT can improve elementary school-aged students' academic experience.
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Research Question

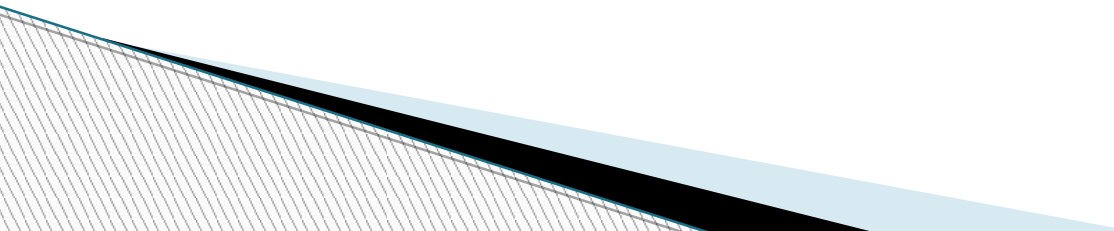
Research Question: In what ways, if at all, can elementary instructors use IMT to increase the value of the overall learning experience of elementary school-aged students?



Method

***Participants**

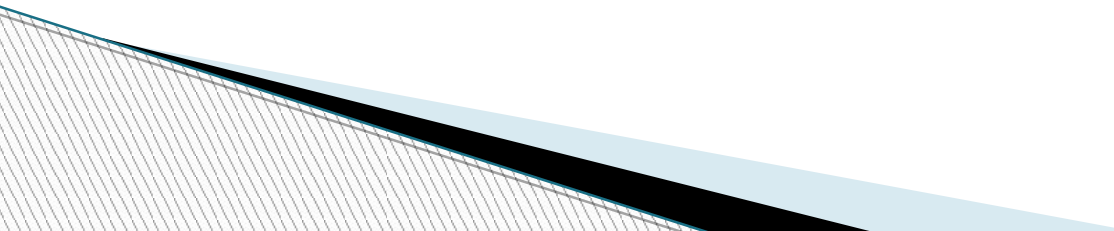
The participants in this study were chosen due to having some teaching experience with elementary school-aged students. The information was collected from elementary instructors working in the north central area of Texas. A total of 10 participant-respondents were selected, which is consistent with the recommended number of respondents to achieve saturation for this type of study, (Mason, 2010). Creswell (1998) states that 5 to 25 users is a sufficient sample size for a phenomenological study. The study objective was explained to the participants.



Method (con't)

▶ **Materials**

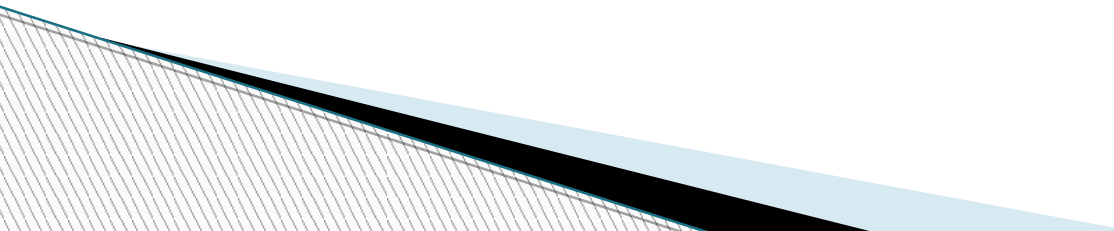
A survey questionnaire was used. The questions in the survey questionnaire were a combination of Likert-scale and open-ended questions with one question requiring both a likert-scale and open-ended answer for the sake of triangulating the data.



Methods (con't)

▶ Procedure

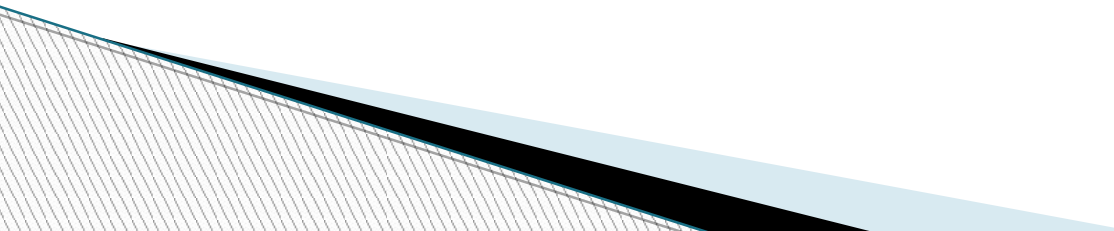
The purpose of the study was explained to the prospective participants. The names of the participants were coded randomly and alphabetically from A to J. Questions 1-3 were Likert-scale questions. Questions 4-6 were open-ended questions. Questions 7-10 were a combination of both requiring Likert-scale and open-ended responses.



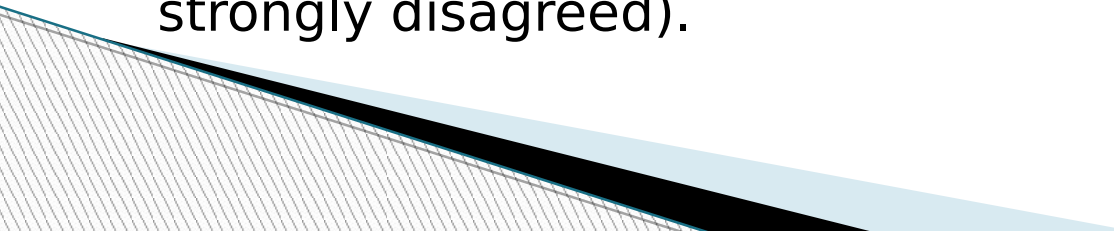
Methods (con't)

▶ Instrumentation

The survey questionnaire was deemed valid for this study. The survey questionnaire asked the Likert-scale and direct open-ended questions of study participants in an attempt to answer the research question of the study. The survey questionnaire was specifically aimed at determining whether or not the participants felt the implementation of IMT would help their students learn in an academic setting.

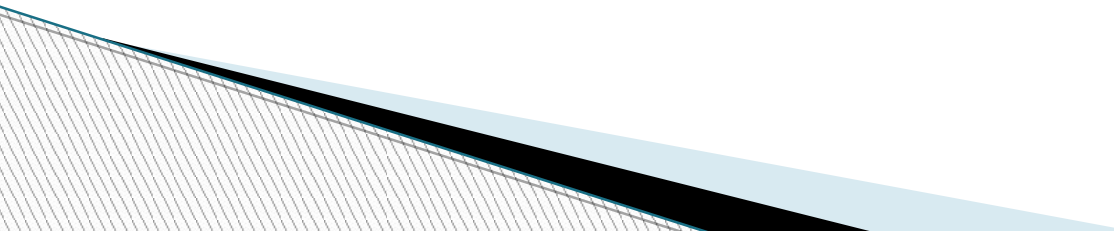


Results of the Study

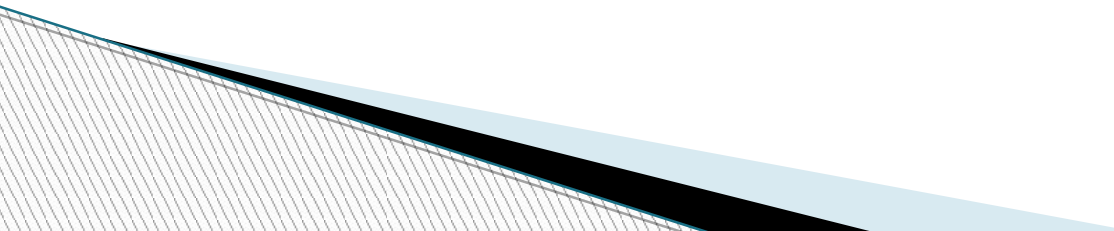
- ▶ A majority of the participants in the study felt that using IMT for lab and study assignments was the best use of IMT implementation.
 - ▶ The results of our study showed that all of the participants in the study felt that IMT could help them in teaching academic concepts to their students (9 participants strongly agreed, and 1 participants agreed).
 - ▶ A small majority of the participants felt that school management would support the implementation of IMT technology into their schools (6 participants strongly agreed, 1 participant agreed, 1 was neutral, 1 disagreed, and 1 strongly disagreed).
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Results of the Study

(con't)

- ▶ A large majority of the participants believed that IMT would be financially feasible to implement at their schools (7 strongly agreed, 1 agreed, 1 was neutral, and 1 disagreed).
 - ▶ A large majority of the participants felt that their students having previous or alternate access to other IMT would be beneficial to those students in an academic setting (5 strongly agreed, 3 agreed, 2 were neutral).
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Conclusions

- ▶ The majority of instructors feel that the availability of IMT at school being reinforced at home could help students. However, technology is only a part of the answer. As technology has improved, instructors have noticed that grades have remained the same.
 - ▶ There were also some concerns about support from administrators.
 - ▶ Overall the implementation of IMT in school for children was viewed as a benefit by the majority of the instructors.
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Questions?

- ▶ Contact Jaime Reborn at jamiereborn@my.unt.edu